C U R R I C U L U M V I T A E

ROGER O. McCLELLAN

Advisor: Inhalation Toxicology
Human Health Risk Analysis

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INTERESTS:

Dr. McClellan's scientific interests center on understanding the effects of airborne materials on people as a basis for minimizing human health risks. He is a strong proponent of obtaining information from studies at multiple levels of biological organization from macromolecules to cells to tissues to the intact person or laboratory animal to populations of people or laboratory animals to predict human health consequences of exposure to toxic agents. His own research has been in inhalation toxicology with emphasis on diseases occurring at late times after relatively low levels of exposure to toxicants.

EDUCATION:

Doctor of Veterinary Medicine with Highest Honors. Washington State University, Pullman, Washington, 1960
Master of Management, Robert O. Anderson Graduate School of Management, University of New Mexico, Albuquerque, NM, 1980

HONORARY DEGREE:

Honorary Doctor of Science, The Ohio State University (August 28, 2005)

PROFESSIONAL LICENSURE AND CERTIFICATION:

Veterinary Medicine (by examination), State of Washington, 1960
American Board of Veterinary Toxicology (by examination), Diplomate, 1967
American Board of Toxicology (by examination), Certificate, General Toxicology, 1980
Recertification – 1985,1990, 1995, 2000, 2005, 2010
Academy of Toxicology Sciences (by review of credentials) Fellow – 1992
Recertification – 1997, 2002, 2007

EXPERIENCE:

1999- Advisor, Inhalation Toxicology and Human Health Risk Analysis

Dr. McClellan currently maintains an active consulting practice advising private and public organizations on inhalation toxicology and human health risk analysis issues. His primary activities are concerned with understanding the characteristics of airborne materials as may be encountered in the work place or environment, those released from consumer products or pharmaceuticals designed for inhalation delivery, the potential for these materials to be inhaled by people and the potential health effects of the materials. The ultimate goal is to provide guidance for the control of emission sources and the safe use of consumer products and pharmaceuticals.

1999- President Emeritus, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

1988-1999 President and Chief Executive Officer, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

The Chemical Industry Institute of Toxicology (now called Hamner Institutes for Health Sciences) is a not-for-profit research institute with a mission of developing, through the conduct of research, an improved scientific basis for understanding and assessing the human health risks of exposure to chemicals. The research was funded for many years primarily by 30 major chemical companies. This support base was expanded near the end of Dr. McClellan's term through a partnership with the American Chemical Council which represents 190 leading chemical companies. Supplemental funding is obtained from government agencies, trade associations and individual companies. The operating budget for the Institute in 1999 was $19 million.

The Institute, at the time of Dr. McClellan's retirement in 1999, had a multidisciplinary staff of 25 doctoral degreed scientists, 100 supporting personnel, 25 postdoctoral fellows and 15 co-op or pre-doctoral students. Institute scientists collaborate extensively with staff at three nearby major research universities, two national government laboratories and neighboring industrial firms. During his tenure, the Institute's training program was expanded and included nearly 200 undergraduates, graduates and post-graduate trainees and fellows. All of the Institute's research findings are published in peer-reviewed scientific journals. In addition, Institute scientists are regular participants in professional organizations and on scientific advisory panels sponsored by government, academic or industrial organizations. Under Dr. McClellan's leadership, the Institute developed an international reputation for its contributions to reducing the scientific uncertainty in making decisions concerning the human health risks of exposure to chemicals.

1976-1988 President and Director, Inhalation Toxicology Research Institute, Lovelace Biomedical and Environmental Research Institute (a non-profit subsidiary of the Lovelace Foundation), Albuquerque, New Mexico

1973-1976 Vice President and Director of Research Administration and Director, Inhalation Toxicology Research Institute, Lovelace Foundation for Medical Education and Research, Albuquerque, New Mexico

1966-1973 Assistant Director of Research and Director, Fission Product Inhalation Program, Lovelace Foundation for Medical Education and Research, Albuquerque, New Mexico

The Inhalation Toxicology Research Institute was a government-owned institution operated by the Lovelace Biomedical and Environmental Research Institute (LBERI), a non-profit corporation, for the U.S. Department of Energy. The research operation started as a part of the Lovelace Foundation for Medical Education and Research, the research and educational arm of a clinic-hospital-research complex. Under Dr. McClellan's leadership starting in 1966, it grew to achieve an international recognition for its research on the health effects of airborne radioactive and chemical toxicants. The Institute's research was funded primarily by the Department of Energy with supplemental funding provided by other government agencies and the private sector. In 1988, Dr. McClellan's last year as President, the Institute had an operating budget of $15 million. The Institute in 1988 had a multidisciplinary staff of over 40 doctoral degree scientists, 160 supporting personnel and 10 postdoctoral fellows and students. Under Dr. McClellan's leadership, internship, graduate and post-graduate programs were initiated that included nearly 500 participants. All of the Institute's research findings were published in the peer-reviewed scientific literature and have been widely used in the setting of standards for airborne toxicants. The Institute continues operation today as the core element of the Lovelace Respiratory Research Institute.

1965-1966 Scientist, Medical Research Branch, Division of Biology and Medicine, U.S. Atomic Energy Commission, Washington, DC

As a term employee, Dr. McClellan was responsible for providing scientific oversight for the Commission's research program on internally deposited radioactive materials. The research program, funded at a level of $20 million per year in 1966, included research conducted in the multipurpose national laboratories and specialized single purpose laboratories under long-term contracts and in universities under multiyear competitively awarded research contracts. The research program included investigations spanning from the study of cells to tissues and organs to laboratory animals to epidemiological investigations.

1965 Senior Scientist, Biology Department, Pacific Northwest Laboratories, Battelle Memorial Institute, Richland, Washington (leave of absence to the U.S. Atomic Energy Commission).

1963-1964 Senior Scientist, Biology Laboratory, Hanford Laboratories, General Electric Company, Richland, Washington

1959-1962 Biological Scientist, Biology Laboratories, General Electric Company, Richland, Washington.

1957-1964 Biological Scientist to Senior Scientist, Biology Laboratory, Hanford Laboratories, General Electric Company, Richland, Washington

McClellan's employment with General Electric Company began as a summer intern in 1957. He joined the full-time staff in 1960 and advanced to Senior Scientist before being asked to accept a "term assignment" in Washington, DC. As a "bench scientist" he conducted research on the toxicity of fission product radionuclides such as ^{90}Sr, ^{131}I, and ^{137}Cs, and transuranic radionuclides such as ^{239}Pu to understand their metabolism, dosimetry, and late-occurring health effects. The principal subjects were domestic animals with emphasis on the use of miniature pigs to provide a basis for extrapolation to humans of comparable size. Dr. McClellan, working with the late Dr. Leo K. Bustad, had responsibility for the conduct of a multigenerational study of the effects of daily ingestion of ^{90}Sr that extended over 15 years. All of the research findings were reported in the peer-reviewed literature and represent important contributions to understanding the health risks of exposure to fission product radionuclides.

1957-1960 Research Assistant, Department of Veterinary Microbiology, Washington State University, Pullman, Washington

Assisted in the conduct of a broad spectrum of studies ranging from investigations on the role of enteroviruses in the gastroenteritis-pneumonia complex in calves to the role of vitamin A and D deficiencies in the pathogenesis of moniliasis infection in chickens.

ACADEMIC AFFILIATIONS:

2002-present	Adjunct Research Professor, Department of Environmental Science, Colorado State University
2000	Regents Lecturer, University of California at Los Angeles
1994-present	Consulting Professor in Community and Family Medicine, Duke University Medical Center, Durham, NC
1991-2008	Adjunct Professor, Department of Toxicology, North Carolina State University, Raleigh, NC
1989-2000	Adjunct Professor, Curriculum in Toxicology, University of North Carolina – Chapel Hill
1988-present	Adjunct Professor of Toxicology, Integrated Toxicology Program, Duke University Medical Center, Durham, NC
1986-present	Clinical Professor, College of Pharmacy, The University of New Mexico, Albuquerque, NM

1980-1998	Adjunct Professor, Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology and Member, Graduate Faculty of the Program in Veterinary Science, College of Veterinary Medicine, Washington State University
1970-1988	Adjunct Professor, Department of Radiation Sciences, School of Pharmacy, University of Arkansas Medical School, Little Rock, AR
1971-1988	Clinical Associate, Department of Pathology, The University of New Mexico School of Medicine, Albuquerque, New Mexico
1973-1983	Adjunct Professor, Department of Biology, The University of New Mexico, Albuquerque, New Mexico

APPOINTMENTS

2014 – 2017	Member, Selection Committee for AAAR Fellows, American Association for Aerosol Research
2012	Consultation on Development of a Multi-Pollutant Science Assessment for Criteria Air Pollutants, U.S. Environmental Protection Agency
2011 – 2014	Special Advisor (on Radiological Safety Issues related to Fukushima, Japan incident), Food and Drug Administration
2010 – present	Member, Advisory Committee, U.S. Transuranium Registry, College of Pharmacy, Washington State University-Tricities
2009 – 2012	Ozone Technical Advisory Group, Wyoming Department of Environmental Quality
2007-present	Member, Board of Scientific and Policy Advisors, American Council on Science and Health
2006-2008	Scientific Advisory Committee on Alternative Toxicological Methods, Interagency Center for the Evaluation of Alternative Methods, Department of Health and Human Sciences
2005-2013	Member, Lunar Airborne Dust Toxicity Advisory Group, National Aeronautics and Space Administration
2004-2006	Member, Board of Scientific Counselors, National Center for Environmental Health and Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention
2004-present	Member, Dean's Advisory Council, College of Veterinary Medicine, Washington State University (Chair, 2004-2006)

2003	Co-Chair, Peer Consultation Workshop-Proposed Protocol to Assess Asbestos-Related Risk, Eastern Research Group/U.S.Environmental Protection Agency
2002-2006	Member, Steering Committee on Strengthening Science-Based Decision-Making, National Research Council
2002-2006	Member, Committee on Leachable and Extractable Limits for Inhaled Pharmaceuticals, Product Quality Research Institute (a joint Pharmaceutical Industry and U.S. Food and Drug Administration Initiative)
2002-2009	Member, Committee on Emerging Technologies, Health Effects Institute
2002-2004	Member, Scientific Advisory Committee, National Center for Environmental Health, Centers for Disease Control and Prevention
2002-2008	Member, Board of Directors, Toxicology Excellence in Risk Assessment (Chair, Board of Directors, 2002-2004)
2002-2003	Member, Community Advisory Committee, Intel Corporation
2002-present	Distinguished Emeritus Member, National Council on Radiation Protection and Measurements
2002-present	Member, Board of Visitors, College of Science, Washington State University
2001-present	Trustee, Washington State University Foundation
2001-2002	Member, Working Committee on Justification of Thresholds for Leachables in Orally Inhaled and Nasal Drug Products, Product Quality Research Institute
2000 – 2012	Member, Future Techs Committee, Health Effects Institute
2000-2006	Member, Review Panel for Particulate Matter, Clean Air Scientific Advisory Panel, U.S. Environmental Protection Agency
2000-2008	Member, Trustee Advisory Committee, Lovelace Respiratory Research Institute
2000-2003	Consultant, Food Quality Protection Act Science Review Board, U.S. Environmental Protection Agency

2000-2001	Member, Committee to Review Protocols for Evaluation of Fibrous Particles, Science Advisory Panel, U.S. Environmental Protection Agency
1999-2004	Member, Biological and Environmental Research Advisory Committee, U.S. Department of Energy
1999-2004	Member, Scientific Advisory Committee, Southern California Particulate Matter Research Center. University of California-University of Southern California
1999-2001	Member, Nonproliferation Advisory Panel, Central Intelligence Agency
1999-2001	Member, External Advisory Committee for Environmental Science Initiative, Pacific Northwest Laboratory, Battelle Memorial Institute
1998-2002	Member, Environmental Roundtable, Institute of Medicine
1998-2001	Member, Advisory Committee on Alternative Toxicological Methods, Interagency Center for the Evaluation of Alternative Methods, Department of Health and Human Services
1998-2004	Member, Committee on Research Priorities for Airborne Particulate Matter, National Research Council/National Academy of Sciences (Prepared Four Reports – "Research Priorities for Airborne Particulate Matter")
1997-2000	Member, Ad Hoc Committee to Review Proposed Revision of Cancer Risk Assessment Guidelines, Science Advisory Board, U.S. Environmental Protection Agency
1997	Co-Chair, Organizing Committee and Chairman, Program Committee, Wingspread Conference - "Creating a Strategy for Science-Based National Policy: Addressing Conflicting Views on the Health Risks of Low-Level Ionizing Radiation"
1997-1999	Member, Science Advisory Board, Strategic Environmental Research Program, Department of Defense/Department of Energy/U.S. Environmental Protection Agency
1997-2007	Member, External Advisory Committee, Center for Rural and Environmental Health, Texas A&M University
1996-2001	Member, Diesel Exhaust Health Assessment Document Review Panel, Clean Air Scientific Advisory Committee, U.S. Environmental Protection Agency

1996-1998	Member, Committee on Environmental Justice, Institute of Medicine
1994-2001	Member, Board of Governors, Research Triangle Institute, Research Triangle Park, NC
1994-2000	Member, Advisory Board, College of Agriculture and Life Sciences, North Carolina State University, Raleigh, NC
1994-1998	Member, Committee on Health Risks of Exposure to Radon (Biological Effects of Ionizing Radiation VI), National Research Council/National Academy of Sciences
1994	Member, Advisory Committee on Potential Health Hazards of Man-made Fibers, World Health Organization, Copenhagen, Denmark
1994	Advisory Member, Strategic Planning Advisory Committee for Monograph Program, International Agency for Research on Cancer, Lyon, France
1993-present	Member, Biological Effects of Low Level Exposures (BELLE) Advisory Committee
1993-1996	External Advisory Committee, Department of Environmental Medicine, Wayne State University
1992-1995	Treasurer, International Congress of Toxicology VIII (Held July 2-6, 1995, Seattle, WA)
1992-1994	Chair, Research Strategies Advisory Committee, U. S. Environmental Protection Agency
1992-1995	Member, Environmental Economics Advisory Committee, U. S. Environmental Protection Agency
1992	Member, Advisory Committee on Health Hazards of Plutonium and Radioiodine, World Health Organization, Brussels, Belgium
1991-1994	Member, Committee on Risk Assessment for Hazardous Air Pollutants, National Research Council/National Academy of Sciences (Final Report – “Science and Judgment in Risk Assessment”)
1991-1993	Member, Clean Air Act Advisory Committee, U.S. Environmental Protection Agency

1990-1994	Presidential Nominee to the Corporation Visiting Committee for the Whitaker College of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA
1990-1996	Member, Board of Directors, North Carolina Veterinary Medical Foundation, Inc., Raleigh, NC (Executive Committee, 1991-1995; President, 1993-1995)
1989-1992	Board of Directors, North Carolina Association for Biomedical Research, Raleigh, NC
1989	Member, Strategic Planning Advisory Committee for Monograph Program, International Agency for Research on Cancer, Lyon, France
1988-1997	Member - Board of Directors, Lovelace-Anderson Endowment Foundation, Albuquerque, NM
1988-1994	Member - Scientific Committee 1-2 on Assessment of Risk for Radiation Protection Purposes, National Council on Radiation Protection and Measurements
1987-1989	Member - Air Toxics Working Group, Department of Health and Environment, State of New Mexico
1987-1992	Chairman - Clean Air Scientific Advisory Committee, U.S. Environmental Protection Agency
1987-1992	Member - National Advisory Environmental Health Sciences Council of the National Institutes of Health
1987-1988	Member - Scientific Review Panel for Rocky Flats Mixed Waste Incineration, Denver, CO
1987-2001	Member - Advisory Council for the Center for Risk Management, Resources for the Future, Washington, DC
1987 -	Member, 3-Person Panel to Evaluate Post-Chernobyl Radiological Safety of U.S. Consulate Facilities in Kiev, Ukraine, U.S. Department of State
1986-	Member, Review Panel, Carcinogenic Effects of Vehicle Emissions (Chair, Animal Evidence Sub-Panel), International Agency for Research on Cancer
1986-1987	Member - Sister Cities Advisory Board, City of Albuquerque, Albuquerque, NM

1986-1988	Member - Advisory Board, Robert O. Anderson School of Management, University of New Mexico, Albuquerque, NM
1986-1988	Member - External Advisory Committee, Department of Environmental Medicine, University of Cincinnati
1986-1988	Member - External Advisory Committee, Institute of Environmental Medicine, New York University
1986-1988	Member, External Scientific Advisory Panel, Chemical Industry Institute of Toxicology
1986-	Member, Advisory Committee on Health Hazards of Plutonium and Radioiodine, World Health Organization, Brussels, Belgium
1985-1987	Member - Advisory Committee on Standards and Regulations for Diesel Powered Equipment in Underground Coal Mines, Mine Safety and Health Administration, Department of Labor
1984-1985	Member - Health and Environmental Research Advisory Committee to the Secretary of the Department of Energy
1984-1985	Chairman - Radionuclide Emissions Review Committee, Science Advisory Board, U.S. Environmental Protection Agency
1983-1984	Member - Board of Directors, Lovelace Medical Systems and Technologies, Inc.
1982-1991	Member - Board of Directors, Toxicology Laboratory Accreditation Board (Treasurer - 1984-1991)
1981-1992	Member - Health Research Committee, The Health Effects Institute
1980-1987	Member - Dose Assessment Advisory Group, U.S. Department of Energy
1980-1987	Member - Clean Air Scientific Advisory Committee Panel on Health Effects of Sulfur Oxide and Particulate Matter, U.S. Environmental Protection Agency
1980-1983	Member - Environmental Health Committee, Science Advisory Board, U.S. Environmental Protection Agency (Chairman, 1982-1983)
1980-1987	Ad Hoc Member - Board on Environmental Studies and Toxicology (prior to 1986 was Board on Toxicology and Environmental Health Hazards), National Research Council/National Academy of Sciences

1979-1987	Member – Committee on Toxicology, National Academy of Sciences/National Research Council, Committee on Toxicology, (Chairman, 1980-1987)
1978-1979	Co-Chairman - Ad Hoc Committee on Review of Health Effects Research Program, Science Advisory Board, U.S. Environmental Protection Agency
1978	Chairman - Health Effects Panel, Environmental Impact of Oil Shale Technology Workshop (U.S. Environmental Protection Agency, Department of Energy and Department of Health, Education and Welfare)
1977-1980	Member - Enewetak Atoll Cleanup Advisory Group (Advisory to U.S. Department of Energy)
1977-1980	Chairman - Subcommittee on Carnivores, Committee on Animal Models for Research on Aging, Institute of Laboratory Animal Resources, National Research Council/National Academy of Sciences
1977-1980	Member – Committee on Animal Models for Research on Aging, Institute of Laboratory Animal Resources, National Research Council/National Academy of Sciences
1978-1980	Chairman - Ad Hoc Committee for Annual Review of 5 Year Research Plan, Science Advisory Board, U.S. Environmental Protection Agency
1977-1978	Chairman – Ad Hoc Review Committee on Scientific Criteria for Environmental Lead, Science Advisory Board, U.S. Environmental Protection Agency (Committee's activities: served as template for Clean Air Scientific Advisory Committee permanent authorization by 1977 Clean Air Act Amendments)
1977-1989	Member - Scientific Committee #57, National Council on Radiation Protection and Measurements
1976-1977	Member - Ad Hoc Committee on "Internal Emitters", National Council on Radiation Protection and Measurements
1976-1996	Member-Board of Directors, Lovelace Biomedical and Environmental Research Institute (Chair: 1988-1996)
1975-1976	Member - Biomedical Advisory Committee on Health Effects for Reactor Safety Study, U.S. Nuclear Regulatory Commission

1974-1976	Member - Ad Hoc Committee - "Hot Particles" - Advisory Committee on the Biological Effects of Ionizing Radiations (BEIR) - National Research Council/National Academy of Science
1974-1990	Member – North American Late Effects Group Steering Committee
1974-1978	Member - National Institutes of Health, Animal Resources Advisory Committee
1974-1980 1981-1994	Member – Executive Committee, Science Advisory Board, U.S. Environmental Protection Agency
1973-1976	Member - Advisory Board on Veterinary Specialties, American Veterinary Medical Association
1972-1977	Member – Environmental Radiation Exposure Advisory Committee, U.S. Public Health Service (1972-1974), U.S. Environmental Protection Agency (1974-1977) (Chairman 1974-1977)
1972-1980	Member - Transuranium Technical Group (Advisory to U.S. Department of Energy)
1971-2001	Member (5 consecutive 6 Year Terms) – National Council on Radiation Protection and Measurements (Program Committee, Member, 1977-1981, Chairman, 1981)
1970-1975	Member - Subcommittee on Whole Animal Radiobiology & Pathology – Los Alamos Meson Physics Facility (LAMPF), Los Alamos National Laboratory
1969-1979	Chairman - Scientific Committee #30, National Council on Radiation Protection and Measurements
1969-1973	Member, Toxicology Study Section, National Institutes of Health
1968-1971	Consultant - National Institute of Environmental Health Sciences, National Institutes of Health
1968-1970	Advisor - Laboratory Animal Biology and Medicine Training Program, University of California-Davis
1967-1973	Member - Joint Space Nuclear Systems/Biomedical and Environmental Research Working Group, U.S. Atomic Energy Commission – National Aeronautics and Space Administration

EDITORIAL APPOINTMENTS

2008-2017	Member, Editorial Board. Risk Analysis
2003 – 2008	Member, Editorial Board, Dose-Response Journal (originally Nonlinearity in Biology-Toxicology-Medicine)
1999-2008	Member, Editorial Advisory Board, Ullman's Encyclopedia of Industrial Chemistry
1998-2009	Member, Editorial Advisory Board, The Dictionary of Substances and their Effects (DOSE), The Royal Society of Chemistry
1995-present	Member, Editorial Advisory Board/Honorary Advisory Board, Toxicological and Environmental Chemistry
1995-1997	Member, International Advisory Board, Comprehensive Toxicology – 12 volumes (First Edition)
1995-1998	Executive Editorial Board, Research Communications in Pharmacology and Toxicology
1994-present	Editorial Advisory Board Technology: A Journal of Science Serving Legislative, Regulatory and Judicial Systems
1994-2000	Member, Editorial Board, Human and Ecological Risk Assessment
1993-2002	Member, Editorial Board, Environmental Health Perspectives
1993-present	Member, Editorial Board, Regulatory Toxicology and Pharmacology
1989-1999	Member, Editorial Advisory Board, Modern Methods in Toxicology
1989-1999	Editorial Advisor, Environmental Business Journal
1989-1999	Member, Editorial Advisory Board, Toxicological and Environmental Chemistry
1987-1999	Associate Editor, Inhalation Toxicology Journal
1987-present	Editor, Critical Reviews in Toxicology
1986-1987	Member, Editorial Advisory Board - Critical Reviews in Toxicology
1987-1988	Associate Editor, Journal of Fundamental and Applied Toxicology

1984-1989	Member, Editorial Board, Journal of Fundamental and Applied Toxicology
1984-1996	Member, Editorial Board, Toxicology and Industrial Health Journal
1983-1996	Associate Editor, Journal of Toxicology and Environmental Health
1980-1982	Member, Editorial Board, Journal of Toxicology and Environmental Health
1976-1980	Associate Editor - Laboratory Animal Science

PROFESSIONAL AFFILIATIONS:

Academy of Toxicological Science (Elected Fellow – 1992)
Recertified – 1997, 2002, 2007, 2012
American Academy of Veterinary and Comparative Toxicology
Fellow, 1975
American Association for Aerosol Research
Awards Committee, Member, 2004-2007
Award Committee, Chair, 2006-2007
Board of Directors, 1982-1993
Treasurer, 1986-1990
Vice President, 1991-1992
President, 1992-1993
Fellow, 2008
American Association for Cancer Research
American Association for the Advancement of Science
Fellow, 1969
American Board of Toxicology
Certification - General Toxicology, 1980
Recertified, 1985, 1990, 1995, 2000, 2005, 2010, 2015 through 12/31/2020
American Board of Veterinary Toxicology
Diplomate 1967
President 1970-1973
American Chemical Society
American Conference of Governmental Industrial Hygienists
American Thoracic Society
American Veterinary Medical Association [Golden Member, 2010]
Gesellschaft fur Aerosolforschung [Association for Aerosol Research]
Health Physics Society
Program Committee 1970-1973
Chairman-1972
Fellow, 1997
National Academy of Medicine (previously the Institute of Medicine of National Academy of Sciences)
(Elected to Membership – 1990)
Chair, Section 10 (Other Health Professions), 1999-2001

Membership Committee, 1997-2001
International Hormesis Society
International Society of Regulatory Toxicology and Pharmacology
New Mexico Zoological Society (Board of Directors 1970-1972)
North Carolina Veterinary Medical Association
Radiation Research Society
Chairman, Finance Committee, 1979-1982
Secretary/Treasurer, 1982-1984
Management Services Negotiations Committee, Chairman, 1985-1986
Society for Experimental Biology and Medicine
Society for Risk Analysis
Fellow, 1992
Society of Toxicology
Media Resource Specialist, 1998-present
Vice President-Elect to Past President, 1987-1991
Committee on Legislative Assistance, 1978-1980
Program Committee, 1980-1983
Committee on Professional Relations and Standards, 1982-1983
Board on Publications, 1983-1986, Chairman, 1984-1986
Finance Committee, 1986-1988
Inhalation and Respiratory Specialty Section, Vice President to President, 1983-1986
Toxicology Education Foundation, Board of Directors, 1990-1993
Toxicology Education Foundation, Founding President, 1990-1991
Endowment Fund Board of Trustees, Founding Chair, 2006-2009
Ad hoc Committee on Endowment, Member, 2004-2006

AWARDS AND HONORS:

Meritorious Service Award (2016), American Veterinary Medical Association

Mildred Christian Career Achievement Award (2014), Academy of Toxicology Sciences

David Sinclair Award (2012), The American Association for Aerosol Research. [For sustained excellence in aerosol research and technology.]

Outstanding Career Achievement Award (2012), The International Dose-Response Society [For outstanding career achievement in the field of dose response.]

Founders Award (2009), Society of Toxicology [For outstanding leadership and achievements in understanding the effects of chemicals]

Regents' Distinguished Alumnus Award (2008), Washington State University [For truly distinguished contributions to Society that have brought distinction to Washington State University through the recipient's personal achievements]

Fellow (2008), American Association for Aerosol Research [Outstanding contributions to aerosol science]

New Mexico Distinguished Public Service Award (2006), [Outstanding national and international advisory service in the fields of environmental and occupational health]

Honorary Doctor of Science (Conferred August 28, 2005), The Ohio State University [For invaluable contributions to understanding the effects of environmental pollutants on human health including nuclear risks]

Merit Award (2005), Society of Toxicology [Distinguished Career in Toxicology]

Hall of Fame (2002), R.O. Anderson Schools of Management, University of New Mexico [Outstanding contributions to the effective management of multi-disciplinary research organizations]

Regents Lecturer (2000), School of Public Health and Department of Chemical Engineering and Materials Science, University of California at Los Angeles [Invited lectures in toxicology, risk assessment and aerosol science]

Distinguished Veterinary Medicine Alumnus Award for Excellence in Research (1999), Washington State University [For outstanding contributions to comparative medicine and understanding the human health risks of airborne materials]

Robert Leader Memorial Lecture in Comparative Medicine (1999), Michigan State University [For outstanding contributions to comparative medicine]

International Achievement Award (1998), International Society of Regulatory Toxicology and Pharmacology [Outstanding contributions to improving the science base for risk-based decision making]

International Aerosol Fellow Award, (1998), International Aerosol Research Assembly [Outstanding contributions to aerosol science and technology]

Thomas T. Mercer Joint Prize (1997), American Association for Aerosol Research and International Society for Aerosols in Medicine [Excellence in the field of inhalable materials and pharmaceutical aerosols.]

Fellow (1997), Health Physics Society [Outstanding contributions to the field of radiation protection]

Ambassador of Toxicology (1995), Mid-Atlantic Chapter of Society of Toxicology [Outstanding contributions to advancement of Toxicology]

Fellow (1992), Society for Risk Analysis [Outstanding contributions to the science of risk analysis]

Arnold J. Lehman Award (1992), Society of Toxicology [Recognized for major contributions to the control of chemical agents, including pharmaceuticals]

Member (1990), National Academy of Medicine (previously the Institute of Medicine of National Academy of Sciences) [Elected as active member based on distinguished professional achievement in Veterinary Medicine and Toxicology]

Career Achievement Award (1989), Society of Toxicology Inhalation Specialty Section [Meritorious contributions to the field of inhalation toxicology]

Paper of the year (1989), Society of Toxicology Inhalation and Respiratory Specialty Section [Co-author of best paper in the field of inhalation toxicology during previous year]

Frank R. Blood Award (1989), Society of Toxicology [Co-author of best paper published in one of the two official journals of the Society during the previous year]

Distinguished Associate Award (1988), Department of Energy [In recognition of highly successful efforts in guiding environmental research for the Department of Energy and its predecessor agencies during the past 22 years]

Distinguished Associate Award (1987), Department of Energy [For outstanding scientific vision and research leadership in inhalation toxicology, radiation biology and environmental health sciences]

Alumni Achievement Award (1987), Washington State University [For leading service in the field of inhalation toxicology and outstanding contributions to veterinary medicine]

Herbert E. Stokinger Award (1985), American Conference of Governmental Industrial Hygienists [For outstanding contributions to the field of industrial toxicology]

Elda E. Anderson Award (1974), Health Physics Society [For outstanding contributions to the field of radiation protection]

Fellow (1969) American Association for Advancement of Science [for outstanding contributions to understanding the health effects of ingested and inhaled radionuclides and extrapolation of findings in experimental animals to humans]

Sigma Xi
Phi Kappa Phi
Phi Zeta
Alpha Psi

GUEST LECTURER:

Chambers University, Sweden
Colorado State University
Duke University
Iowa State University
Maastricht University, The Netherlands
Michigan State University
Münster University, Germany
North Carolina State University
Northwestern University
The Ohio State University
Oregon State University
Purdue University
Texas Tech University
University of Arizona
University of California-Davis
University of California-Los Angeles
University of Cincinnati
University of Kansas
University of Missouri
University of New Mexico
University of North Carolina - Chapel Hill
University of Santander, Spain
University of Saskatchewan
University of Washington
Washington State University
West Virginia University
Yale University

LISTED IN THE FOLLOWING BIOGRAPHICAL GUIDES:

Who's Who in the World
Who's Who in America
Who's Who in Frontier Science and Technology
Who's Who in Science
Who's Who of Intellectuals
Who's Who in Medicine and Healthcare
American Men and Women in Science
Who's Who in Science and Engineering
Biological Directory of Occupational Health and Safety Specialists
International Who's Who of Intellectuals
Men of Achievement

AREAS OF INTEREST

Dr. McClellan's research interests center on understanding the effects of toxic materials on people. He is a strong proponent of obtaining information from studies at multiple levels of biological organization from macromolecules to cells to tissues to the intact person or laboratory animal to populations of people or laboratory animals to predict human health consequences of exposure to toxic agents. His own research, and that of his immediate colleagues, has been in inhalation toxicology with emphasis on diseases such as cancer occurring at late times after relatively low levels of exposure to toxicants. These studies have included a wide range of airborne materials including various radionuclides, specific chemicals and complex chemical mixtures such as diesel exhaust. With each of the materials, his research has spanned from the conduct of laboratory investigations to the development of quantitative assessments of risk to people.

Dr. McClellan has been a leader in developing the field of human health risk assessment. His initial involvement in the field began in the 1960s when he was involved in developing health risk estimates related to the rise of radionuclide power sources in space. The involvement in assessments for health risks of radiation exposure continued

when he assumed leadership for the Inhalation Toxicology Research Institute program in 1966. This program was concerned initially with fission products such as might be released in a nuclear power reactor accident and later was expanded to consider transuranic elements such as plutonium. The results of the Institute's lifespan studies of inhaled fission product radionuclides are a primary database for assessing the human health risks of inhaled beta- and gamma-emitting radionuclides on the respiratory tract and other tissues. The results of the Institute's lifespan studies with inhaled plutonium-238 and 239 particles of different sizes are a primary database for assessing human health risks of alpha-emitting radionuclides on the respiratory tract, skeleton and liver. In 1971, Dr. McClellan was elected to the National Council on Radiation Protection and Measurements, a Congressionally chartered organization concerned with assessing radiation risks.

In the 1970s, the mission of the Inhalation Toxicology Research Institute was broadened to consider airborne chemical toxicants including vehicle emissions and coal-fired power plants. He also became increasingly involved in advisory committee activities, many of which had a risk assessment component. This included service as a founding member of the U.S. Environmental Protection Agency's Science Advisory Board (from 1974 to 1994) and 7 years as Chair of the Committee on Toxicology of the National Research Council/National Academy of Sciences. Advisory activities concerned with assessing human health risks continue to the present time with a special interest in airborne toxicants.

In addition to his direct research interests, Dr. McClellan has had a long-standing interest in the management of research activities. He has been especially interested in fostering a multidisciplinary team approach to complex scientific problems. He has also had a long-standing interest in fostering collaborations and interactions among the private industry, government, and academic sectors of society.

PUBLICATIONS:

A list of Dr. McClellan's scientific publications, technical reports and testimonies is attached.

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OPEN LITERATURE PUBLICATIONS

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2. McClellan, R.O., Invited Testimony on "Results of an Office of Technology Assessment Study that Analyzed the Current Federal Research Activities in Support of Risk Assessment, and How Research Results are Used in Updating Risk Assessment Procedures," before the Subcommittee on Technology, Environment, and Aviation, Committee on Science, Space and Technology, U.S. House of Representatives, Washington, DC, November 16, 1993.

3. McClellan, R.O., Invited Testimony on Organizational Management of EPA's Research and Development, Committee on Science, Space, and Technology, U.S. House of Representatives, Washington, DC, June 23, 1994.

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5. McClellan, R.O., Invited Testimony, Subcommittee on Energy and Environment, House Committee on Science, U.S. House of Representatives, Washington, DC, February 16, 1995.

6. McClellan, R.O., Invited Testimony, National Ambient Air Quality Standard Setting Process, before hearing of Subcommittee on Health and Environment and Oversight and Investigations, U.S. House of Representatives, Washington, DC, November 9, 1995.

7. McClellan, R.O., Invited Testimony on the Occupational Safety and Health Administration’s Approach to Updating Permissible Exposure Limits (PELs) for Air Contaminants, Occupational Safety and Health Administration, Francis Perkins Building, Washington, DC, February 22, 1996.

8. McClellan, R.O., Invited testimony on National Ambient Air Quality Standards for Ozone and Particulate Matter, Subcommittee on Clean Air, Wetlands, Private Property and Nuclear Safety, U.S. Senate Committee on Environment and Public Works, Washington, DC, February 5, 1997.

9. McClellan, R.O., Invited Testimony on the Scientific Basis for Changes in the Particulate Matter and Ozone Standards, Subcommittee on Health and Environment and Subcommittee on Oversight and Investigations, U.S. House of Representatives, Washington, DC, April 9, 1997.

10. McClellan, R.O., Invited Testimony, The Role of Science in Making Good Decisions, Committee on Science, U.S. House of Representatives, Washington, DC, June 10, 1998.

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12. McClellan, R. O., Invited Testimony on Revision of the National Ambient Air Quality Standard for Ozone, Subcommittee on Clean Air and Nuclear Safety, Environment and Public Works Committee, U.S. Senate, Washington, DC, July 11, 2007.

13. McClellan, R. O., Invited Testimony on S.742 and Draft Legislation to Ban Asbestos in Products, Subcommittee on Environment and Hazardous Materials, Committee on Energy and Commerce, U.S. House of Representatives, Washington, DC, February 28, 2008.

14. McClellan, R. O., Invited Testimony on the U.S. Environmental Protection Agency's Setting of the New National Ambient Air Quality Standards for Ozone, Committee on Oversight and Government Reform, U.S. House of Representatives, Washington, DC, April 24, 2008.

15. McClellan, R. O., Invited Testimony on Oversight Hearing on Science and Environmental Regulatory Decisions, Subcommittee on Public Sector Solutions to Global Warming, Oversight and Children's Health Protection, Committee on Environment and Public Works, United States Senate, Washington, DC, May 7, 2008.

16. McClellan, R. O., Invited Testimony on Hearing on the U.S. Environmental Protection Agency's Setting of the New National Ambient Air Quality Standards for Ozone, Committee on Oversight and Government Reform, U.S. House of Representatives, Washington, DC, May 20, 2008.

17. McClellan, R. O., Invited Testimony on Hearing on Quality Science for Quality Air, Subcommittee on Energy and Environment Science, Space and Technology, U.S. House of Representatives, Washington, DC, October 4, 2011.

18. McClellan, R.O., Invited Testimony on the Proposed Rule: NAAQS for Particulate Matter, Public Meeting, USEPA, Sacramento, CA, July 19, 2012.

19. McClellan, R.O., Invited Testimony on Hearing on Improving EPA's Scientific Advisory Processes, Subcommittee on Environment of the Committee on Science, Space and Technology, U.S. House of Representatives, Washington, DC, March 20, 2013.

20. McClellan, R.O., Invited Testimony on Subcommittee on Superfund, Waste Management and Regulatory Oversight, Committee on Environment and Public Works, U.S. Senate, Washington, DC, March 20, 2015. [Hearing Purpose: a) Oversight related to the panels and processes by which the Environmental Protection Agency receives independent advice, and (b) Review of S.543, the Science Advisory Board Reform Act of 2015.]